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SEP 28 2006

PATENT

Appl. No. 10/714,095
Amdt. sent September 27, 2006
Reply to Office Action of May 1, 2006

AMENDMENTS TO THE ABSTRACT:

Please replace paragraph [0085] with the following amended paragraph:

[0085] A wake-up system for an input device having a circuit board inside it has a motion sensor ~~mounted on~~ operatively coupled to the printed circuit board inside the input device. The motion sensor includes a ball contact and at least one stationary contact disposed on the printed circuit board of the device. The ball contact is in electrical contact with the at least one stationary contact. The motion sensor has a motion signal output and the wake-up system further includes a detection circuit connected to the motion signal output. The detection circuit has a wake-up signal output. The input device can be an optical wireless mouse. ~~The motion sensor may be a mechanical motion sensor such as a tilt sensor having a ball contact and stationary contacts. The stationary contacts may be printed directly on the printed circuit board. The ball contact and stationary contacts form an electrical switch and are gold-plated. The ball contact is conductive. The motion sensor may be sealed to avoid corrosion. The detection circuit detects a change of state of whether the electrical switch formed by the ball contact and stationary contact is opened or closed. A first embodiment can amplify the motion signal from the motion sensor and a second embodiment can detect a low signal from the motion sensor.~~ Also disclosed is are a method of waking up an input device such as a mouse and an input device comprising the wake-up system.